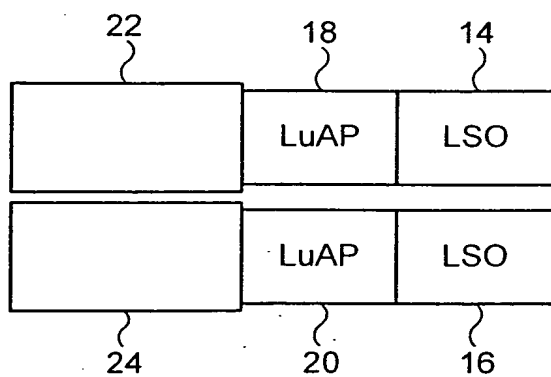
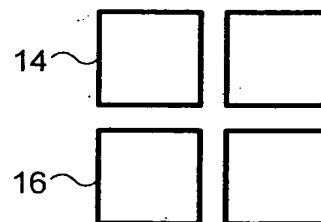


FIG. 1



(a)



(b)

FIG. 2

Material	Density $\rho, \text{g/cm}^3$	Emission maximum $\lambda, \text{nm}$	Light yield, photons/ MeV	Decay time $\tau, \text{ns}$	Photoelectric absorption coefficient @ 511 keV 1/cm
$\text{Lu}_2\text{SiO}_5\text{:Ce}$ (LSO)	7.4	420	27,000	40	0.30
$\text{LuAlO}_3\text{:Ce}$ (LuAP)	8.34	380	9,600	11 (60%)	0.31
$\text{Gd}_2\text{SiO}_5\text{:Ce}$ (GSO)	6.7	440	8,000/1,000	60 for fast component 600 for slow component	0.18

FIG. 3

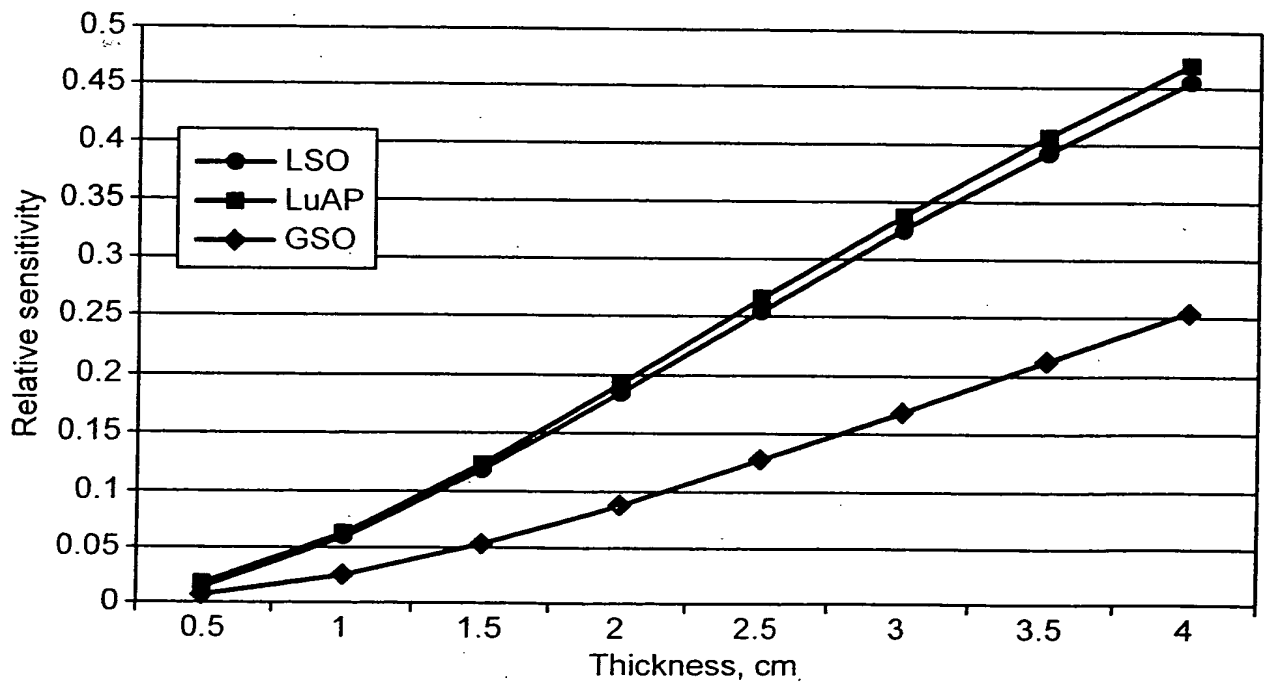


FIG. 4

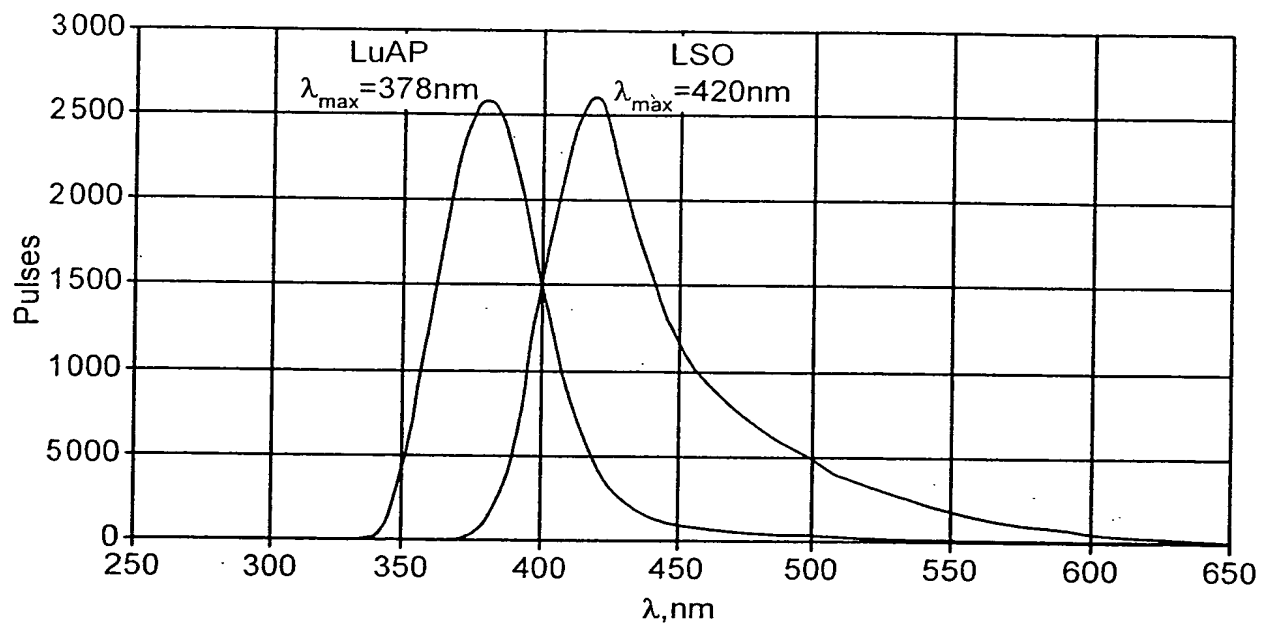


FIG. 5

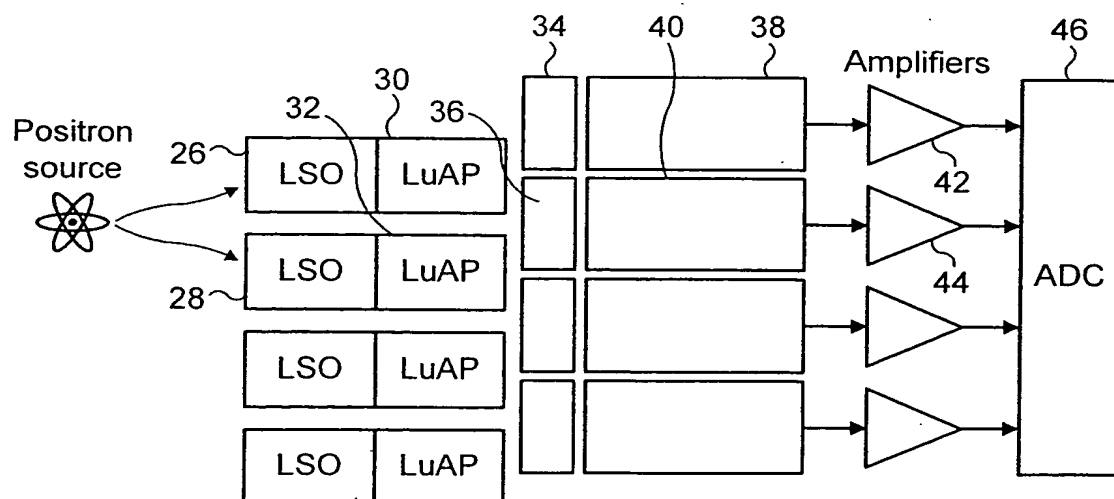


FIG. 6